

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P944940

Luminaire Tested: **GALN-SB1A-750-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-750-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3848 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

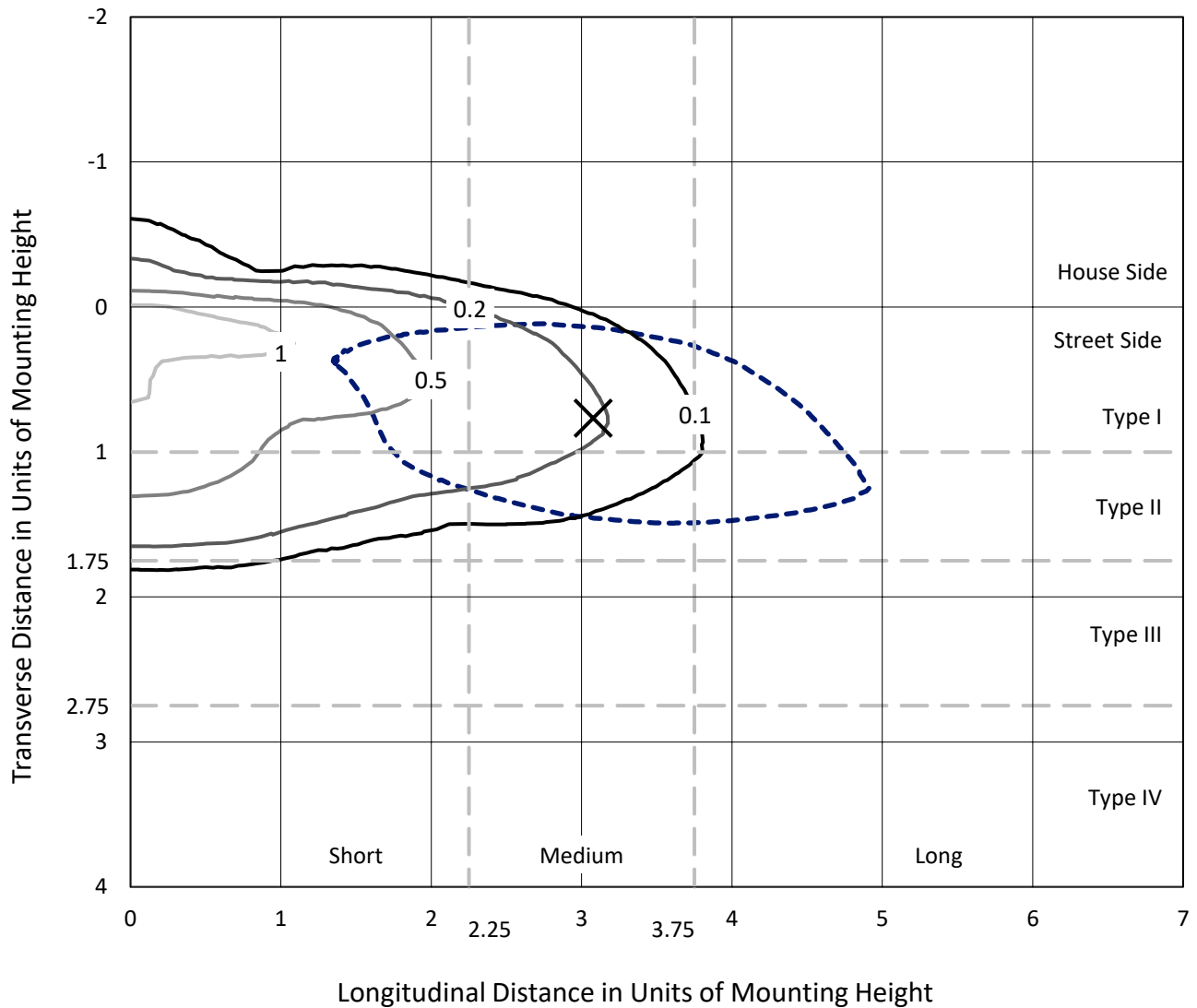
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

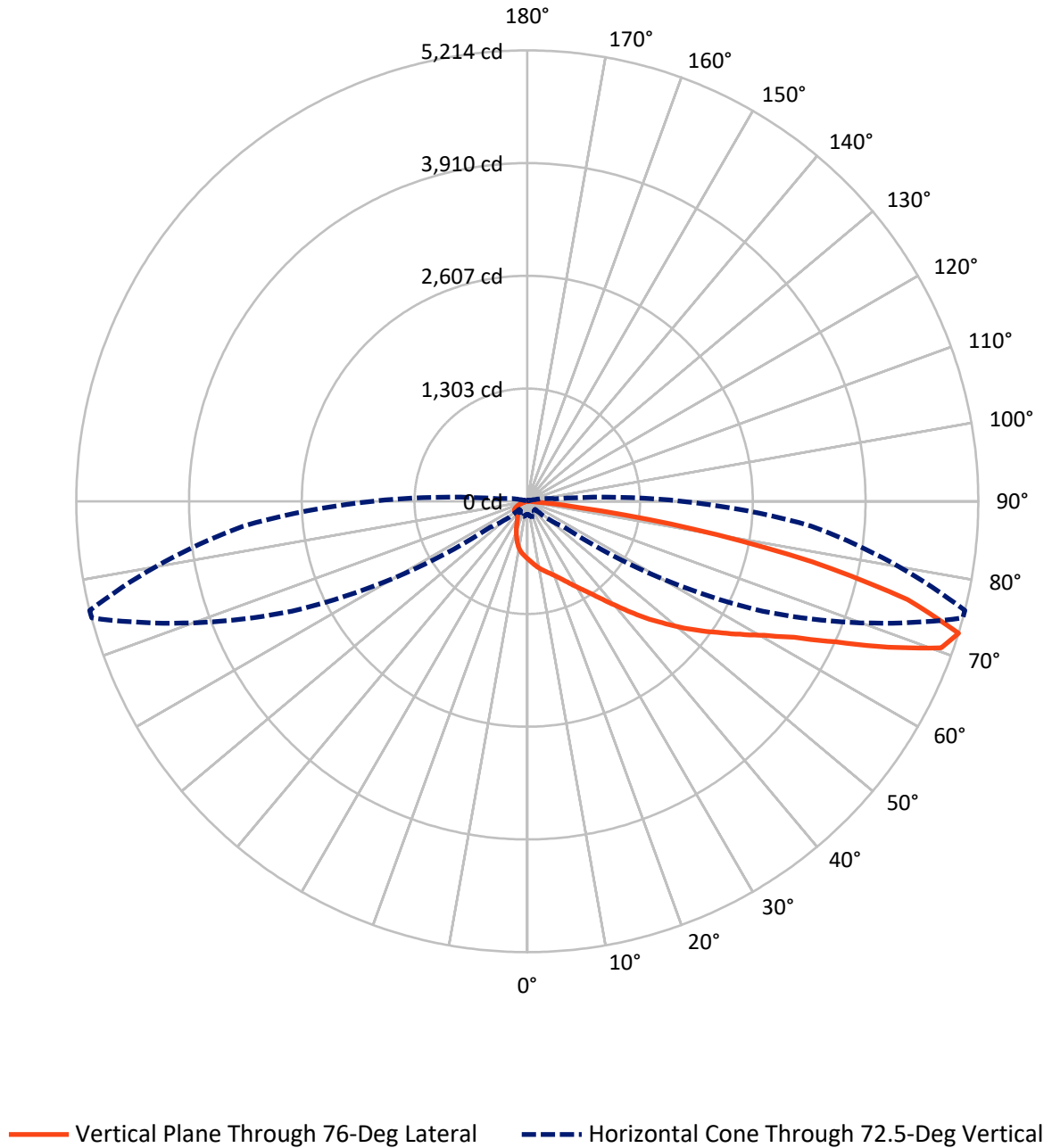
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	393.8	0.0	393.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	3454.2	0.0	3454.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	3848.0	0.0	3848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	1.6
10°-20°	162.2	4.2
20°-30°	256.7	6.7
30°-40°	397.1	10.3
40°-50°	603.1	15.7
50°-60°	831.5	21.6
60°-70°	878.4	22.8
70°-80°	602.6	15.7
80°-90°	56.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3848.0	100.0
0°-180°	3848.0	100.0

Coefficient of Utilization



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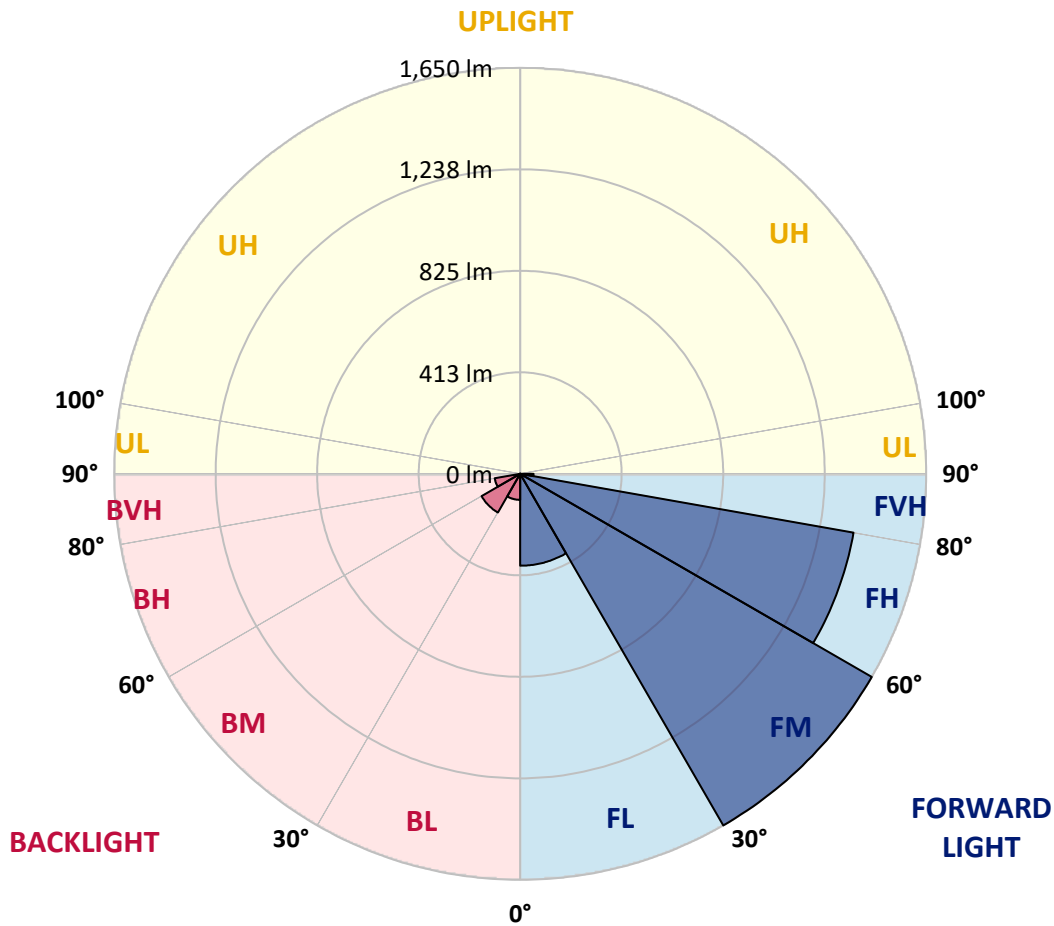
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.4	9.7			
FM (30°-60°)	1650.3	42.9			
FH (60°-80°)	1375.8	35.8			G1/1800
FVH (80°-90°)	54.6	1.4			G1/100
BL (0°-30°)	105.9	2.8	B0/110		
BM (30°-60°)	181.3	4.7	B0/220		
BH (60°-80°)	105.1	2.7	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
2.5°	773.1	762.8	764.8	754.6	749.8	738.4	726.4	710.6	693.2	693.2
5°	854.4	847.9	847.9	836.0	826.7	808.7	787.3	759.6	726.6	723.4
7.5°	904.3	900.4	902.8	895.9	888.4	869.7	844.2	808.0	761.3	757.3
10°	914.1	913.8	920.8	922.8	927.8	918.3	895.6	853.9	795.5	789.8
12.5°	876.4	871.6	888.9	909.1	937.5	950.3	938.5	895.9	826.7	818.7
15°	814.5	815.5	832.0	863.2	910.6	956.0	971.2	936.8	858.4	848.9
17.5°	779.0	775.3	789.5	817.5	869.9	934.1	986.5	975.0	892.1	881.4
20°	774.8	774.5	777.8	790.5	830.5	902.6	984.7	1012.2	931.8	919.3
22.5°	804.3	803.8	801.0	798.5	809.5	871.9	977.2	1047.6	979.2	965.8
25°	849.4	848.7	844.4	829.2	818.5	855.4	970.2	1080.6	1035.4	1020.4
27.5°	904.6	904.1	896.4	873.4	845.7	856.9	966.7	1114.5	1100.3	1085.6
30°	972.2	971.2	955.3	922.8	886.6	880.6	971.5	1152.7	1167.9	1156.7
32.5°	1057.1	1054.4	1033.4	984.5	933.8	912.3	980.5	1191.9	1248.1	1237.6
35°	1122.8	1118.5	1106.3	1063.1	988.5	951.3	1001.4	1238.3	1344.4	1335.2
37.5°	1179.2	1174.9	1164.9	1129.5	1066.8	1000.9	1035.1	1300.2	1458.2	1453.7
40°	1240.1	1233.1	1228.3	1190.4	1133.7	1072.6	1083.3	1372.6	1589.3	1589.8
42.5°	1287.0	1284.3	1284.8	1255.6	1198.4	1157.5	1147.2	1454.2	1746.3	1751.0
45°	1327.2	1324.9	1334.2	1313.7	1263.5	1213.1	1222.1	1546.6	1918.0	1927.8
47.5°	1358.1	1360.6	1373.9	1360.6	1331.2	1252.3	1288.5	1646.2	2098.5	2099.7
50°	1389.1	1390.1	1412.1	1405.6	1393.6	1302.0	1349.7	1757.5	2288.7	2290.9
52.5°	1398.8	1397.3	1432.3	1448.3	1448.8	1363.4	1428.8	1878.8	2475.2	2482.4
55°	1348.9	1353.1	1409.6	1474.5	1500.2	1448.3	1535.6	2032.3	2673.8	2676.8
57.5°	1104.8	1128.2	1253.1	1403.6	1533.4	1569.8	1689.1	2211.8	2903.2	2900.5
60°	670.5	698.4	847.7	1177.2	1425.0	1691.9	1915.3	2489.9	3153.9	3146.1
62.5°	374.9	383.4	431.1	704.7	1083.8	1614.2	2136.2	2847.1	3490.3	3464.1
65°	276.3	279.1	290.3	345.2	532.7	1241.6	2087.8	3274.2	3963.1	3916.4
67.5°	240.1	242.9	253.9	261.3	237.9	652.2	1720.1	3511.1	4563.4	4502.3
70°	202.2	203.7	221.4	226.4	170.2	248.1	1105.0	3437.9	5119.1	5075.4
72.5°	150.8	156.8	182.5	194.4	136.5	131.8	520.2	3005.8	5213.2	5213.7
75°	102.3	107.8	137.3	160.0	105.3	92.4	209.9	2244.5	4539.5	4539.5
77.5°	69.9	74.4	95.6	125.6	79.9	63.4	108.8	1424.5	3256.7	3371.3
80°	31.0	33.7	61.7	91.1	60.7	40.9	61.7	780.0	1969.4	1945.2
82.5°	15.2	17.5	39.4	56.9	39.2	25.2	32.4	370.9	638.3	606.6
85°	3.0	4.0	21.2	24.2	18.2	11.2	12.2	114.1	76.9	87.9
87.5°	0.0	0.0	6.5	4.5	2.0	2.5	2.5	10.2	6.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
665.0	0°	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
676.2	2.5°	667.2	658.0	637.8	617.8	597.3	578.6	565.6	552.6	544.7	541.2
691.2	5°	672.5	653.7	611.3	566.9	522.9	480.0	447.8	417.6	408.1	392.4
708.9	7.5°	680.7	650.2	583.3	508.5	437.1	374.2	328.7	292.5	278.1	264.1
724.1	10°	686.2	643.8	546.4	446.3	349.7	279.1	235.6	209.4	199.9	191.5
738.4	12.5°	688.4	631.8	504.0	376.7	272.1	212.7	186.7	174.5	171.2	168.2
751.8	15°	690.4	620.0	456.5	309.5	214.9	178.0	167.7	163.7	161.5	159.5
765.6	17.5°	692.2	605.1	402.4	251.6	181.5	164.0	159.0	154.8	153.0	150.8
785.3	20°	698.2	590.6	354.0	207.7	163.2	154.0	148.5	144.0	142.5	141.0
813.2	22.5°	709.4	578.9	307.0	178.0	152.3	143.8	136.8	131.8	130.8	129.8
847.2	25°	722.9	564.4	262.8	158.8	141.5	132.0	124.3	120.1	119.1	119.3
886.4	27.5°	740.1	548.4	224.9	146.5	132.0	121.1	112.3	109.1	109.6	110.6
931.6	30°	759.1	533.7	195.2	138.0	123.6	111.3	102.6	100.3	102.1	103.6
992.0	32.5°	787.3	520.7	174.5	131.3	116.1	103.3	96.4	93.6	95.6	97.6
1069.1	35°	825.7	514.2	162.7	125.6	109.6	97.1	90.1	88.1	90.1	90.6
1163.2	37.5°	872.9	513.7	157.8	120.8	103.6	91.9	84.1	83.4	84.9	85.1
1276.3	40°	933.8	516.9	154.0	117.3	97.3	85.9	78.6	77.9	78.4	80.1
1412.3	42.5°	1010.9	530.4	148.8	112.8	90.6	79.9	74.1	72.4	72.1	74.1
1564.6	45°	1107.8	560.1	141.8	105.6	84.6	74.9	69.1	67.1	66.4	66.9
1721.8	47.5°	1213.4	596.6	134.8	98.8	80.4	70.9	65.1	62.7	61.4	61.4
1868.8	50°	1315.7	637.8	130.0	91.9	77.4	67.1	60.9	58.4	56.4	55.9
2020.1	52.5°	1417.1	678.2	126.3	84.9	73.9	62.4	56.9	54.2	51.9	50.9
2169.9	55°	1509.4	716.6	119.8	78.1	69.4	57.4	52.9	50.2	47.4	45.7
2321.6	57.5°	1598.0	748.6	107.8	71.1	62.4	52.7	48.7	45.7	42.4	40.2
2475.2	60°	1678.6	765.1	92.9	63.7	55.4	47.7	43.9	41.2	36.9	33.2
2626.2	62.5°	1740.0	758.6	76.6	55.2	48.2	43.2	38.4	35.7	30.7	26.2
2807.1	65°	1803.0	723.1	61.2	46.2	42.2	37.2	32.2	29.5	23.7	19.0
3052.0	67.5°	1884.6	647.5	48.2	38.4	36.4	29.5	25.2	23.5	19.5	15.0
3314.9	70°	1937.0	503.0	37.4	31.2	30.0	21.5	19.5	19.2	15.5	11.5
3297.1	72.5°	1793.2	329.7	28.7	23.7	21.5	14.0	15.0	15.0	11.2	7.7
2890.3	75°	1496.9	193.0	20.7	17.0	12.2	9.0	10.2	10.2	7.0	3.7
2060.1	77.5°	1069.1	102.8	13.7	10.5	6.2	4.0	5.5	5.2	2.2	0.2
807.5	80°	408.9	35.4	6.5	4.2	1.7	0.7	0.5	0.2	0.2	0.0
126.1	82.5°	62.4	9.2	1.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
26.7	85°	11.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.0	87.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<u>180°</u>
665.0
541.7
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110.1
103.1
97.1
90.4
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